



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/653,680
Source: 1 Fw
Date Processed by STIC: 3/29/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service; Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 4B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/653,680

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line **not exceed 72** characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.

- 4 Non-ASCII The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please **ensure your subsequent submission is saved in ASCII text**.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses
 Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING

DATE: 03/29/2004

PATENT APPLICATION: US/10/653,680

TIME: 13:27:28

Input Set : A:\U 014797-5.ST25.txt

Output Set: N:\CRF4\03292004\J653680.raw

3 <110> APPLICANT: DAI, KEN-SHOW
 5 <120> TITLE OF INVENTION: HUMAN SACH-RELATED VARIANTS ASSOCIATED WITH CANCERS
 7 <130> FILE REFERENCE: U 014797-5
 9 <140> CURRENT APPLICATION NUMBER: 10/653,680
 10 <141> CURRENT FILING DATE: 2003-09-02
 12 <160> NUMBER OF SEQ ID NOS: 6
 14 <170> SOFTWARE: PatentIn version 3.2
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 1960
 18 <212> TYPE: DNA
 19 <213> ORGANISM: ARTIFICIAL
 21 <220> FEATURE:
 22 <223> OTHER INFORMATION: UNKNOWN
 25 <220> FEATURE:
 26 <221> NAME/KEY: CDS
 27 <222> LOCATION: (345)..(761)
 29 <400> SEQUENCE: 1

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 32 ggcgagtga aagaaggaaat cagaaaggaa gggagttaac aaaataataa aaacagcctg 120
 34 agccacggct ggagagaccg agaccggcg caagagagcg cagccttagt aggagaggaa 180
 36 cgcgagacgc ggcagcgag agcgcgcagc agcagcagca gcagcagcag cagcagcagc 240
 38 aggcgcccga gctgagaccg gcggccgacg gccagccctc agggggcggt cacaagtcag 300
 40 cgcccaagca agtcaagcga cagcgcctcgt ctgcgccga actg atg cgc tgc aaa 356
 41 Met Arg Cys Lys
 42 1
 44 cgc cgg ctc aac ttc agc ggc ttt ggc tac agc ctg ccg cag cag cag 404
 45 Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu Pro Gln Gln Gln
 46 5 10 15 20
 48 ccg gcc gcc gtg gcg cgc cgc aac gag cgc gag cgc aac cgc gtc aag 452
 49 Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg Asn Arg Val Lys
 50 25 30 35
 52 ttg gtc aac ctg ggc ttt gcc acc ctt cgg gag cac gtc ccc aac ggc 500
 53 Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His Val Pro Asn Gly
 54 40 45 50
 56 gcg gcc aac aag aag atg agt aag gtg gag aca ctg cgc tcg gcg gtc 548
 57 Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu Arg Ser Ala Val
 58 55 60 65
 60 gag tac atc cgc gcg ctg cag cag ctg ctg gac gag cat gac gcg gtg 596
 61 Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu His Asp Ala Val
 62 70 75 80
 64 agc gcc gcc ttc cag gca ggc gtc ctg tcg ccc acc atc tcc ccc aac 644
 65 Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr Ile Ser Pro Asn
 66 85 90 95 100

pp1-5
 Does Not Comply
 Corrected Diskette Needed

insufficient explanation. Give source of genetic material. (see item 11 on Error Summary Sheet)

RAW SEQUENCE LISTING

DATE: 03/29/2004

PATENT APPLICATION: US/10/653,680

TIME: 13:27:28

Input Set : A:\U 014797-5.ST25.txt

Output Set: N:\CRF4\03292004\J653680.raw

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69 Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro Val Ser Ser Tyr
70          105          110          115
72 tcg tcg gac gag ggc tct tac gac ccg ctc agc ccc gag gag cag gag      740
73 Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro Glu Glu Gln Glu
74          120          125          130
76 ctt ctc gac ttc acc aac tgg ttctgagggg ctcggcctgg tcaggccctg      791
77 Leu Leu Asp Phe Thr Asn Trp
78          135
80 gtgcgaatgg acttttgaag caggggtgatc gcacaacctg catcttttagt gctttcttgt      851
82 cagtggcggtt gggaggggga gaaaaggaaa agaaaaaaaa agaagaagaa gaagaaaaga      911
84 gaagaagaaa aaaacgaaaa cagtcaacca accccatcgc caactaagcg aggcattgct      971
86 gagagacatg gctttcagaa aacgggaagc gtcagaaca gtatctttgc actccaatca     1031
88 ttcacggaga tatgaagagc aactgggacc tgagtcaatg cgcaaaatgc agcttgtgtg     1091
90 caaaagcagt gggctcctgg cagaaggagg cagcacacgc gttatagtaa ctcccatcac     1151
92 ctctaacacg cacagctgaa agttcttgcg cgggtccctt cacctccccg ccttttctta     1211
94 gagtgcagtt cttagccctc tagaaacgag ttggtgtctt tcgtctcagt agccccacc     1271
96 ccaataagct gtacacattg gtttacagtg aaactatgct attctcagcc ctttgaaact     1331
98 ctgcttctcc tccagggccg gattcccaaa ccccatggct tccctcacac tgtcttttct     1391
100 accattttca ttatagaatg cttccaatct tttgtgaatt ttttattata aaaaatctat     1451
102 ttgtatctat cctaaccagt tcggggatat attaagatat tttgtacat aagagagaaa     1511
104 gagagagaaa aatttataga agttttgtac aaatgggtta aaatgtgtat atcttgatac     1571
106 tttaacatgt aatgctatta cctctgcata ttttagatgt gtagttcacc ttacaactgc     1631
108 aattttccct atgtggtttt gtaaagaact ctcctcatag gtgagatcaa gaggccacca     1691
110 gttgtacttc agcaccaatg tgtcttactt tatagaaatg ttgttaatgt attaatgatg     1751
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114 cagccagttg gttttgatag gttgcctttt ggagatttct attactgcct ttttttctt     1871
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123 <212> TYPE: PRT
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126 <220> FEATURE:
127 <223> OTHER INFORMATION: UNKNOWN
129 <400> SEQUENCE: 2
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135 Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg
136          20          25          30
139 Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His
140          35          40          45
143 Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu
144          50          55          60
147 Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu
148 65          70          75          80
151 His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr
152          85          90          95
155 Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro

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same error

RAW SEQUENCE LISTING

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DATE: 03/29/2004

TIME: 13:27:28

Input Set : A:\U 014797-5.ST25.txt

Output Set: N:\CRF4\03292004\J653680.raw

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160          115          120          125
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176 <220> FEATURE:
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178 <222> LOCATION: (550)..(795)
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185 agccacggct ggagagaccg agaccggcg caagagagcg cagccttagt aggagaggaa      180
187 cgcgagacgc ggcagagcgc gttagcact gacttttctg gctgcttctg cttttttttt      240
189 tcttagaaac aagaaggcgc cagcggcagc ctacacgcg agcgccacgc gaggctcccg      300
191 aagccaacc gcgaaggag gaggggagg aggaggagg ggcgtgcagg gaggagaaaa      360
193 agcattttca ctttttttgc tccactcta agaagtctcc cggggatttt gtatatattt      420
195 ttttaacttcc gtcagggtc ccgcttcata tttcctttt tttccctctc tgttcctgca      480
197 cccaagttgg tcaacctggg ctttgccacc cttcgggagc acgtcccaa cggcgcggcc      540
199 aacaagaag atg agt aag gtg gag aca ctg cgc tcg gcg gtc gag tac atc      591
200 Met Ser Lys Val Glu Thr Leu Arg Ser Ala Val Glu Tyr Ile
201          1          5          10
203 cgc gcg ctg cag cag ctg ctg gac gag cat gac gcg gtg agc gcc gcc      639
204 Arg Ala Leu Gln Gln Leu Asp Glu His Asp Ala Val Ser Ala Ala
205 15          20          25          30
207 ttc cag gca ggc gtc ctg tcg ccc acc atc tcc ccc aac tac tcc aac      687
208 Phe Gln Ala Gly Val Leu Ser Pro Thr Ile Ser Pro Asn Tyr Ser Asn
209          35          40          45
211 gac ttg aac tcc atg gcc ggc tcg ccg gtc tca tcc tac tcg tcg gac      735
212 Asp Leu Asn Ser Met Ala Gly Ser Pro Val Ser Ser Tyr Ser Ser Asp
213          50          55          60
215 gag ggc tct tac gac ccg ctc agc ccc gag gag cag gag ctt ctc gac      783
216 Glu Gly Ser Tyr Asp Pro Leu Ser Pro Glu Glu Gln Glu Leu Leu Asp
217          65          70          75
219 ttc acc aac tgg ttctgagggg ctggcctgg tcaggcctg gtgcgaatgg      835
220 Phe Thr Asn Trp
221          80
223 actttggaag cagggtgac gcacaacctg catctttagt gctttcttgt cagtggcgtt      895
225 gggaggggga gaaaaggaaa agaaaaaaa agaagaagaa gaagaaaaga gaagaagaaa      955
227 aaacgaaaa cagtcaacca accccatcgc caactaagcg aggcattgct gagagacatg      1015
229 gctttcagaa aacgggaagc gctcagaaca gtatctttgc actccaatca ttcacggaga      1075
231 tatgaagagc aactgggacc tgagtcaatg cgcaaatgc agcttggtgt caaaagcagt      1135
233 gggctcctgg cagaaggag cagcacacgc gttatagtaa ctcccatcac ctctaacacg      1195
235 cacagctgaa agttcttctg cgggtccctt cacctcccg ccctttctta gaggcagtt      1255

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same

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Input Set : A:\U 014797-5.ST25.txt

Output Set : N:\CRF4\03292004\J653680.raw

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237 cttagccctc tagaaacgag ttggtgtctt tegtctcagt agccccccacc ccaataagct 1315
239 gtagacattg gtttacagt aaactatgct attctcagcc ctttgaaact ctgcttctcc 1375
241 tccaggggccc gattcccaaa ccccatggct tccctcacac tgtcttttct accattttca 1435
243 ttatagaatg cttccaatct tttgtgaatt ttttattata aaaaatctat ttgtatctat 1495
245 cctaaccagt tcggggatat attaagatat ttttgtacat aagagagaaa gagagagaaa 1555
247 aatttataga agttttgtac aaatggttta aaatgtgtat atcttgatac tttaacatgt 1615
249 aatgctatta cctctgcata ttttagatgt gtagttcacc ttacaactgc aattttccct 1675
251 atgtgggtttt gtaaagaact ctccatagat gtgagatcaa gaggccacca gttgtacttc 1735
253 agcaccaatg tgtcttactt tatagaaatg ttgttaatgt attaataatg ttattaaata 1795
255 ctgttcaaga agaacaaaagt ttatgcagct actgtccaaa ctcaaagtgg cagccagttg 1855
257 gttttgatag gttgcctttt ggagatttct attactgctt tttttttctt actgttttat 1915
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270 <223> OTHER INFORMATION: UNKNOWN
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279 20 25 30
282 Ala Gly Val Leu Ser Pro Thr Ile Ser Pro Asn Tyr Ser Asn Asp Leu
283 35 40 45
286 Asn Ser Met Ala Gly Ser Pro Val Ser Ser Tyr Ser Ser Asp Glu Gly
287 50 55 60
290 Ser Tyr Asp Pro Leu Ser Pro Glu Glu Gln Glu Leu Leu Asp Phe Thr
291 65 70 75 80
294 Asn Trp
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309 <222> LOCATION: (569)..(805)
311 <400> SEQUENCE: 5
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316 agccacggct ggagagaccg agaccggcgc caagagagcg cagccttagt aggagaggaa 180
318 cgcgagacgc ggcagagcgc gttcagcact gacttttgct gctgcttctg cttttttttt 240
320 tcttagaaac aagaaggcgc cagcggcagc ctccacacgc agcgccacgc gaggctcccg 300
322 aagccaaccc gcgaaggagg gaggggaggg agggaggagg ggcgtgcagg gaggagaaaa 360
324 agcattttca ctttttttgc tcccaactcta agaagtctcc cggggatttt gtatatattt 420
326 tttaacttcc gtcagggctc ccgcttcata tttccttttc tttccctctc tgttctctga 480

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Input Set : A:\U 014797-5.ST25.txt

Output Set: N:\CRF4\03292004\J653680.raw

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330 ttccgcgact ccttgccgc cgctgcgc atg gaa agc tct gcc aag atg gag 592
331                               Met Glu Ser Ser Ala Lys Met Glu
332                               1           5
334 agc ggc ggc gcc ggc cag cag ccc cag ccg cag ccc cag cag ccc ttc 640
335 Ser Gly Gly Ala Gly Gln Gln Pro Gln Pro Gln Pro Gln Gln Pro Phe
336   10           15           20
338 ctg ccg ccc gca gcc tgt ttc ttt gcc acg gcc gca gcc gcg gcg gcc 688
339 Leu Pro Pro Ala Ala Cys Phe Phe Ala Thr Ala Ala Ala Ala Ala
340 25           30           35           40
342 gca gcc gcc gca gcg gca gcg cag agc gcg cag cag cag cag cag 736
343 Ala Ala Ala Ala Ala Ala Ala Gln Ser Ala Gln Gln Gln Gln Gln
344   45           50           55
346 cag cag cag cag cag cag gcg ccg cag ctg aga ccg gcg gcc gac ggc 784
347 Gln Gln Gln Gln Gln Gln Ala Pro Gln Leu Arg Pro Ala Ala Asp Gly
348   60           65           70
350 cag ccc tca ggg ggc ggt cac aagtcagcgc ccaagcaagt caagcgacag 835
351 Gln Pro Ser Gly Gly Gly His
352   75
354 cgcctcgtctt cgcccgaaact gatgcgctgc aaacgccggc tcaacttcag cggctttggc 895
356 tacagcctgc cgcagcagca gctgctggac gagcatgacg cggtgagcgc cgccttccag 955
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366 cagtggcggtt gggaggggga gaaaaggaaa agaaaaaaa agaagaagaa gaagaaaaga 1255
368 gaagaagaaa aaaacgaaaa cagtcaacca accccatcgc caactaagcg aggcatgcct 1315
370 gagagacatg gctttcagaa aacgggaagc gctcagaaca gtatctttgc actccaatca 1375
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384 accatthttca ttatagaatg cttccaatct tttgtgaatt ttttattata aaaaatctat 1795
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390 ttaacatgt aatgctatta cctctgcata ttttagatgt gtagttcacc ttacaactgc 1975
392 aattttccct atgtggtttt gtaaagaact ctccatcatg gtgagatcaa gaggccacca 2035
394 gttgtacttc agcaccaatg tgtcttactt tatagaaatg ttgttaatgt attaataatg 2095
396 ttattaaata ctgttcaaga agaacaaagt ttatgcagct actgtccaaa ctcaaagtgg 2155
398 cagccagttg gttttgatag gttgcctttt ggagatttct attactgcct ttttttctt 2215
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406 <211> LENGTH: 79
407 <212> TYPE: PRT
408 <213> ORGANISM: ARTIFICIAL same
410 <220> FEATURE:

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/653,680

DATE: 03/29/2004
TIME: 13:27:29

Input Set : A:\U 014797-5.ST25.txt
Output Set: N:\CRF4\03292004\J653680.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

eq#:1,2,3,4,5,6

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/653,680

DATE: 03/29/2004

TIME: 13:27:29

Input Set : A:\U 014797-5.ST25.txt

Output Set: N:\CRF4\03292004\J653680.raw